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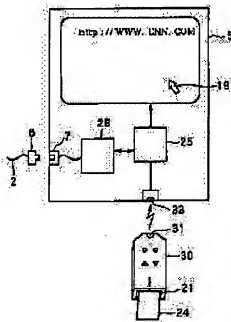
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(54) INTERNET TELEVISION RECEIVER WITH INTERNET CARD AND CONNECTION METHOD UTILIZING INTERNET CARD

(57)Abstract:

PROBLEM TO BE SOLVED: To allow the user to use the Internet system even from an internet television receiver to which the user itself is not registered.

SOLUTION: An IC card storing information of user registration is inserted to an infrared ray remote controller of the television receiver. For example, in the case of using an internet television receiver at a tour destination, the user inserts its internet card 24 to a slot 21 of a remote controller 30 and depresses an entering button, then a telephone number of a provider, a connection procedure (script), an identification number and a password of the user which are stored on the card are sent to the television receiver. The television receiver processes them as external data and displays telephone numbers of the provider based on areas, then the user uses the remote controller to select an area and its telephone number that is the closest to the resident place of the user, dialing is made automatically and the identification number and the password are transmitted.



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CLAIMS

[Claim(s)]

[Claim 1] The modem which transmits various signals between the telephone lines, and the storage for read-out which stores beforehand the Internet program which performs the Internet communication link, The central processing unit which sets up the communication link with the exterior according to this Internet program, Television equipment equipped with the store which can memorize various data, and the infrared light sensing portion which receives an infrared signal, In the TV with Internet functions which consists of remote controllers which discharge the infrared signal corresponding to actuation of various control carbon buttons and these control carbon button Form a slot in said remote controller and the Internet card which stored beforehand connection data required for connection with an Internet provider in this slot is inserted. Transmit to said television equipment by making said connection data into an infrared signal from said remote controller, memorize to said store, perform said Internet program by said television equipment side, and said connection data are used. The TV with Internet functions with the Internet card characterized by accessing the Internet through said modem and telephone line.

[Claim 2] The TV with Internet functions with the Internet card according to claim 1 characterized by said Internet card consisting of semiconductor memory which, in addition to this, remembers connection data, such as an e-mail address, to be the telephone number of said Internet provider, a user's identification number, and a password.

[Claim 3] The modem which transmits various signals between the telephone lines, and the storage for read-out which stores beforehand the Internet program which performs the Internet communication link, The central processing unit which sets up the communication link with the exterior according to this Internet program, The Internet unit which consists of a store which can memorize various data, and the infrared light sensing portion which receives an infrared signal and the video circuit which changes into a video signal the data generated by said communication link, In the TV with Internet functions which consists of remote controllers which discharge the infrared signal corresponding to actuation of the television equipment which receives said video signal, various control and the carbon button for starting, and these carbon buttons Form a slot in said Internet unit and the Internet card which stored beforehand connection data required for connection with an Internet provider in this slot is inserted. Read connection data from delivery and said Internet card to said Internet unit by making a seizing signal into an infrared signal from said remote controller, perform said Internet program, and said connection data are used. The TV with Internet functions with the Internet card characterized by accessing the Internet through said modem and telephone line.

[Claim 4] The TV with Internet functions with the Internet card according to claim 3 characterized by said Internet card consisting of semiconductor memory which, in addition to this, remembers connection data, such as an e-mail address, to be the telephone number of said Internet provider, a user's identification number, and a password.

[Claim 5] The modem which transmits various signals between the telephone lines, and the storage for read-out which stores beforehand the Internet program which performs the Internet communication link,

The central processing unit which sets up the communication link with the exterior according to this Internet program, Television equipment equipped with the store which can memorize various kinds of data, and the infrared light sensing portion which receives an infrared signal, In the TV with Internet functions which consists of remote controllers which discharge the infrared signal corresponding to actuation of various control carbon buttons and these control carbon button Form a slot in said television equipment and the Internet card which stored beforehand connection data required for connection with an Internet provider in this slot is inserted. A seizing signal is made into an infrared signal from said remote controller. To the infrared light sensing portion of said television equipment Delivery, Said central processing unit reads connection data from the Internet card with this seizing signal, perform said Internet program, and said connection data are used. The TV with Internet functions with the Internet card characterized by accessing the Internet through said modem and telephone line.

[Claim 6] The TV with Internet functions with the Internet card according to claim 7 characterized by said Internet card consisting of semiconductor memory which, in addition to this, remembers connection data, such as an e-mail address, to be the telephone number of said Internet provider, a user's identification number, and a password.

[Claim 7] The modem which transmits various signals between the telephone lines, and the storage for read-out which stores beforehand the Internet program which performs the Internet communication link, The central processing unit which sets up the communication link with the exterior according to this Internet program, The Internet unit which consists of the store which can memorize various data, the infrared light sensing portion which receives an infrared signal and the video circuit which changes into a video signal the data generated by said communication link, and a bus to which various kinds of data are transmitted, In the TV with Internet functions which consists of remote controllers which discharge the infrared signal corresponding to actuation of the television equipment which receives said video signal, various control and the carbon button for starting, and these carbon buttons A slot is formed while forming the internal bus to which it connects with said television equipment with said bus, and various kinds of data are transmitted. The Internet card which stored beforehand connection data required for connection with an Internet provider in this slot is inserted. A seizing signal is made into an infrared signal from said remote controller. To the infrared light sensing portion of said Internet unit Delivery, Said central processing unit reads connection data from said Internet card through said internal bus with this seizing signal, perform said Internet program, and said connection data are used. The TV with Internet functions with the Internet card characterized by accessing the Internet through said modem and telephone line.

[Claim 8] The TV with Internet functions with the Internet card according to claim 7 characterized by said Internet card consisting of semiconductor memory which, in addition to this, remembers connection data, such as an e-mail address, to be the telephone number of said Internet provider, a user's identification number, and a password.

[Claim 9] In the approach of accessing the Internet using a remote controller and the television equipment which stores beforehand the Internet program which performs the Internet communication link Connection data required for connection with an Internet provider are beforehand stored in the movable Internet card. carrying -- Insert this Internet card in the slot formed in said remote controller or said television equipment, and said remote controller is operated. The connection method using the Internet card characterized by reading said connection data and accessing the Internet through delivery, and said modem and telephone line at said Internet program.

[Claim 10] In the approach of accessing the Internet using a remote controller, the Internet unit which stores beforehand the Internet program which performs the Internet communication link, and television equipment Connection data required for connection with an Internet provider are beforehand stored in the movable Internet card. carrying -- Insert this Internet card in the slot formed in said remote controller, said Internet unit, or said television equipment, and said remote controller is operated. The connection method using the Internet card characterized by reading said connection data and accessing the Internet through delivery, and said modem and telephone line at said Internet program.

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DETAILED DESCRIPTION

[Detailed Description of the Invention]

[0001]

[Field of the Invention] This invention relates to the TV with Internet functions stored in the Internet card which can carry the data which make connection with a provider, and the connection method using the Internet card in detail about a TV with Internet functions.

[0002]

[Description of the Prior Art] In the conventional TV with Internet functions, with the equipment of self-specification [a user], the provider and the contract are connected to the Internet with the equipment concerned, after carrying out an epilogue and user registration.

[0003]

[Problem(s) to be Solved by the Invention] In the conventional TV with Internet functions, it was connectable with the Internet with the equipment of self-specification which carried out user registration. Or when another equipment was used, whenever equipment differed, it was troublesome, and when there was no mustard at first, it did not become about the user registration which time amount requires.

[0004] In this invention, even if it uses which NTA network television of what [which are another equipment], use of the Internet aims at the ability to be made to do like equipment [finishing / registration].

[0005]

[Means for Solving the Problem] The modem with which this 1st invention transmits various signals between the telephone lines, and the storage for read-out which stores beforehand the Internet program which performs the Internet communication link, The central processing unit which sets up the communication link with the exterior according to this Internet program, The storage which memorizes connection data required for connection with an Internet provider, The TV with Internet functions which consists of television equipment equipped with the infrared light sensing portion which receives an infrared signal, and a remote controller which discharges the infrared signal corresponding to actuation of various control carbon buttons and these control carbon button is used. A slot is formed in a remote controller and the Internet card which stored connection data in this slot beforehand is inserted. It transmits to television equipment by making connection data into an infrared signal from a remote controller, and memorizes to a store, and the Internet program is performed by the television equipment side. This connection data is used and the Internet is accessed through said modem and telephone line. The modem with which the 2nd invention transmits various signals between the telephone lines, and the storage for read-out which stores beforehand the Internet program which performs the Internet communication link, The central processing unit which sets up the communication link with the exterior according to this Internet program, The storage which memorizes connection data required for connection with an Internet provider, The Internet unit which consists of an infrared light sensing portion which receives an infrared signal, and a video circuit which changes into a video signal the data generated by said communication link, The TV with Internet functions which consists of remote

controllers which discharge the infrared signal corresponding to actuation of the television equipment which receives said video signal, various control and the carbon button for starting, and these carbon buttons is used. A slot is formed in the Internet unit and the Internet card which stored connection data in this slot beforehand is inserted. It transmits to the Internet unit by making a seizing signal into an infrared signal from a remote controller, connection data are read from the Internet card, and said Internet program is performed. This connection data is used and the Internet is accessed through a modem and the telephone line. The 3rd invention uses a remote controller and the television equipment which stores beforehand the Internet program which performs the Internet communication link. A slot is formed in said television equipment and the Internet card which stored beforehand connection data required for connection with an Internet provider in this slot is inserted. This connection data is used and the Internet is accessed through a modem and the telephone line. The 4th invention uses a remote controller, the Internet unit which stores beforehand the Internet program which performs the Internet communication link, and television equipment. A slot is formed in said television equipment and the Internet card which stored beforehand connection data required for connection with an Internet provider in this slot is inserted. This connection data is used and the Internet is accessed through a modem and the telephone line. invention of the 5th and 6 -- carrying -- connection data required for connection with an Internet provider are beforehand stored in the movable Internet card, only this Internet card is brought, and connection of the Internet is made using the TV with Internet functions of arbitration.

[0006]

[Embodiment of the Invention]

In gestalt 1, drawing 1 of operation, TV with Internet functions 5 includes a required circuit in reception of the Internet beforehand as an Internet circuit 26 to television equipment at the manufacture time. The modular jack 7 which receives the telephone line 2 is formed in TV with Internet functions 5. The infrared light sensing portion 33 is arranged at the front of TV with Internet functions 5, and the remote controller 30 of another object transmits various kinds of actuation signals to TV with Internet functions 5 through infrared radiation.

[0007] A remote controller 30 can be equipped with the slot 21 of insertion opening for IC cards, and can equip a slot 21 with the Internet card 24. The Internet card 24 consisted of IC card memory, and is equipped with the data written in beforehand and the free area in which data will be written from now on. In the Internet circuit 26 of drawing 3, a light sensing portion 33 changes an infrared signal into a digital signal, and sends it to CPU10.

[0008] An example is given and drawing 3 explains the internal configuration of the Internet circuit 26. A modular jack 7 is connected to a modem 8, and, as for a modem 8, the carbon button assignment equipment program ROM 27 interprets carbon button assignment information for data from the data of delivery and RAM23 in memory RAM 23. Moreover, the external setting flag 9 and the external dial data 15 which are received from a remote controller 30 are stored in memory RAM 23.

[0009] Bootstrap ROM11, the dial program ROM 12, the navigator program ROM 13 and the audio controller 16, the migration list creation program ROM 17, the carbon button assignment equipment program ROM 27, and the alphabetic character font memory 18 of the Internet are connected to CPU10 through the bus.

[0010] First, the bootstrap 6 and the inside-and-outside proper use program 37 are beforehand memorized by bootstrap ROM11. If the inside-and-outside proper use program 37 has the external setting flag 9 in the storage area of RAM23, it will use the external dial data 15.

[0011] The telephone number and the procedure program of an Internet provider are beforehand memorized by the dial program ROM 12. The pattern of an alphabetic character or a notation is memorized by the alphabetic character font memory 18, and CPU10 outputs the image pattern of a character font from the code of an alphabetic character or a notation.

[0012] The migration list creation program ROM 17 detects the selected position in a homepage (a picture with an alphabetic character with an underline, a coloring alphabetic character, or a frame usually expresses), and stores the result temporarily at RAM23. Therefore, the migration list creation program ROM 17 extracts the corresponding migration pattern of cursor from the data of a homepage

which change for every screen.

[0013] Next, the carbon button assignment equipment program ROM 27 detects the definition of matching with the selections in a homepage (a picture with an alphabetic character with an underline, a coloring alphabetic character, or a frame usually expresses), and a remote control carbon button, and stores the result temporarily in the interior RAM 23. Therefore, the carbon button assignment equipment program ROM 27 extracts the corresponding remote control carbon button from the selections data of a homepage which change for every screen, respectively. In CPU10, the video control circuit 14 is connected with the audio controller 16 through a bus, and the audio controller 16 generates phoneme data. This phoneme data is sent to the audio input of television equipment 5.

[0014] The video control circuit 14 changes into a status signal (image data) the digital data of the character pattern and image which are sent from CPU10 using Video RAM 34, and through a dynamic RAM 50, an analog video signal is sent to a video circuit, and is displayed on television equipment 5.

[0015] Next, drawing 4 explains the appearance of a remote controller 30. The slot 21 of insertion opening is formed in the side face of a box, and this slot 21 can be equipped with the Internet card 24. There is a switch carbon button group 40 for television in an upper half on top, and a power button, video / television carbon button, and the channel carbon button 58 grade of a figure are arranged there. Moreover, there is a switch carbon button group 41 for the Internet in a lower half, and they are scrolling top 42, bottom of scrolling 43, the cursor advance carbon button 44, the activation carbon button 45, the termination carbon button 46, the ** carbon button 47, the ** carbon button 48, and URL there. The carbon button (address) 49 and the menu button 50 grade are prepared.

[0016] Drawing 2 explains the internal configuration of a remote controller 30. A light-emitting part 31, the carbon button control section 27, the IC connector 29, and the above-mentioned switch carbon button groups 40 and 41 are connected to CPU34 through the bus 36. A terminal area 28 can connect the Internet card 24 containing a slot 21 to the IC connector 29. The Internet card 24 is the semiconductor memory which, in addition to this, remembered connection data, such as an e-mail address, to be the telephone number of an Internet provider, a user's identification number, and a password.

[0017] the information (external dial data) of a provider required for connection of the Internet on the Internet card 24 -- in addition, an owner's (actuation people) individual humanity news is memorized, and the information entry field is prepared. There are a provider name, two or more connection place areas, its telephone number, handshaking (script), an online signup PUGURO gram, etc. in a provider's information.

[0018] There are the identification number (ID), password and e-mail address to the provider who has joined, the address, etc. in individual humanity news. In an information entry field, the connect-time count and toll count which are generated by this Internet card 24 are memorized.

[0019] Now, for example, the Internet card 24 of self shall be brought at a travel place, and there shall be TV with Internet functions 5 in the room of a hotel. The jack 6 of the telephone line 2 is inserted in the jack 7 of TV with Internet functions 5, and the Internet card 24 is inserted in the slot 21 of a remote controller 30 in drawing 1, and 2, 3 and 4. When the power button of the remote controller 30 at hand is pushed, the light sensing portion 33 of TV with Internet functions 5 receives this signal, and the power source of TV with Internet functions 5 is turned on.

[0020] The Internet card 24 is inserted in the slot 21 of a remote controller 30, and the activation carbon button 45 is pushed. Then, from the Internet card 24, the external setting flag 9, a provider name, two or more connection place areas and the telephone number of those, and handshaking (script), the identification number (ID) and password to a provider and an e-mail address become an infrared signal, and are sent to TV with Internet functions 5. Data, such as a provider name, are the external dial data 15 as connection data.

[0021] In TV with Internet functions 5, the external setting flag 9 and these connection data are received by the light sensing portion 33, and it stores in the free area of RAM23 as the external setting flag 9 and external dial data 15 by CPU10. Now, since the external dial data 15 and the external setting flag 9 are memorized by RAM23, the inside-and-outside proper use program 7 opts for use of external data.

Moreover, CPU10 passes connection data, such as a provider name these-received to the dial program

developed from the dial program ROM 12 on RAM23, two or more connection place areas, and its telephone number.

[0022] The connection place area and its telephone number from Hokkaido of for example, provider "meshnet" to Tokyo and Okinawa are displayed on the screen of TV with Internet functions 5 by the dial program. Actuation people choose the area nearest to the location which is now, and its telephone number with the manual operation button of a remote controller 30, and send them to RAM23.

[0023] A bootstrap 11 starts, and CPU10 reads starting screen data like drawing 7, and displays them on the screen of television equipment 5. In the pictures, cursor 19 is displayed on the character position of one dial of a screen at first.

[0024] Then, if a user pushes the activation carbon button 45 of a remote controller 30, CPU10 will be dialed to addressing to the telephone number of the provider contained in the external dial data 15 of RAM23 with a modem 8. Number data are sent to an external provider through MOJURAJAKU 7, a plug 6, and the telephone line 2, and the circuit of TV with Internet functions 5 and a provider is connected.

[0025] From a provider, a calling party's ID number and an inquiry of a password come to a TV with Internet functions according to a predetermined protocol. CPU10 answers with the ID number and password which are contained in the external dial data 15 according to a dial program, a provider and TV with Internet functions 5 will be in the condition in which data communication is possible, and the icon under connection etc. will be displayed on some screens of television 5.

[0026] About the activity of TV with Internet functions 5, a user memorizes the connect-time count and toll count which are generated by use of this Internet card 24 to an entry field, and grasps a toll and other time zones later.

[0027] If the data communication in the Internet is completed and the power button of a remote controller 30 is pushed, TV with Internet functions 5 will be turned off and the external data of the external setting flag on RAM23 and the external dial data 15 will be cleared.

[0028] Next, actuation in the condition of having extracted the Internet card 24 from the slot 21 of a remote controller 30 is explained. If the owner of TV with Internet functions 5 of this hotel pushes the power button of a remote controller 30, since an external setting flag will not be transmitted, the dial program ROM 12 telephones a self provider's telephone number, and answers with the ID number and password of a local station.

[0029] Moreover, in the case of just delivered TV with Internet functions 5 and TV with Internet functions 5 which eliminated provider registration, the Internet card 24 is inserted in the slot 21 of a remote controller 30, and it sends an online signup PUGURO gram to TV with Internet functions 5. CPU10 reads an online signup PUGURO gram from RAM23, can communicate with a predetermined provider and can register it.

[0030] In gestalt 2. of operation next drawing 5, and 6, the TV with Internet functions of the set top box version and an external mold is explained. The Internet unit 1 is installed on ordinary television equipment 35, the modular jack 7 which receives the telephone line 2 is formed in the Internet unit 1, and the slot 39 of insertion opening is formed further.

[0031] The same Internet card 24 as the gestalt 1 of operation is inserted in this slot 39. The infrared light sensing portion 32 is arranged at the front of the Internet unit 1, and the signal which arrives from the light-emitting part 31 of the remote controller 30 of another object can be received.

[0032] The Internet unit 1 and television equipment 35 are connected by a predetermined video line and a predetermined audio line that the modular plug 6 of the telephone line 2 can connect with this jack 7. TV with Internet functions 5 consists of the telephone line 2, television equipment 35, and an Internet unit 1.

[0033] An example is given and drawing 6 explains the internal configuration of the Internet unit 1. A modular jack 7 is connected to a modem 8, and, as for a modem 8, the carbon button assignment equipment program ROM 27 interprets carbon button assignment information for data from the data of delivery and RAM23 in memory RAM 23 through the serial controller 49. [0034] Bootstrap ROM11, the dial program ROM 12, the navigator program ROM 13, the migration list creation program ROM

17, the carbon button assignment equipment program ROM 27 and the alphabetic character font memory 18, and the IC connector 29 of the Internet are connected to CPU10 through the bus 47. The terminal area 28 can connect the Internet card 24 containing a slot 39 to the IC connector 29. The Internet card 24 is the same configuration as an example 1, and its memorized connection data are also the same.

[0035] First, the bootstrap 36 and the inside-and-outside proper use program 37 are beforehand memorized by bootstrap ROM11. The same contents as an example 1 are memorized by the dial program ROM 12 and the alphabetic character font memory 18.

[0036] The functional contents of the migration list creation program ROM 17 and the carbon button assignment equipment program ROM 27 are the same as an example 1. The video control circuit 14 is changed into a status signal (image data) using Video RAM 34, and sends the digital data of the character pattern and image which are sent from a bus 47 to the flicker prevention circuit 15.

[0037] The flicker prevention circuit 15 performs a scanning convert, and prevents CHIRATSUKI of a video signal. The signal from the flicker prevention circuit 15 is sent to the D/A conversion circuit 22. the D/A conversion circuit 22 and NTSC or -- PAL An analog video signal and the stable video signal are sent to television equipment 35 through the video input line 3.

[0038] Now, like an example 1, the Internet card 24 of self shall be brought at a travel place, and TV with Internet functions 5 shall be in the room of a hotel. After inserting the Internet card 24 in the slot 39 of the Internet unit 1, the power button of a remote controller 30 is pushed. The external setting flag 9 is read from the Internet card 24 by CPU10, and RAM23 memorizes.

[0039] Now, since the external setting flag 9 is memorized by RAM23, the inside-and-outside proper use program 37 opts for use of the connection data in the Internet card 24. Moreover, CPU10 passes connection data, such as a provider name, to the dial program developed from the dial program ROM 12 on RAM23 through the IC connector 29 from the Internet card 24.

[0040] Intermediate actuation is the same as an example 1, and it omits, next a calling party's ID number and an inquiry of a password come from a provider to TV with Internet functions 5 according to a predetermined protocol. CPU10 answers with the ID number and password which are in the Internet card 24 according to the inside-and-outside proper use program 37, a provider and TV with Internet functions 5 will be in the condition in which data communication is possible, and the icon under connection etc. will be displayed on the screen of television 5. Since subsequent actuation is the same as that of the 1st example, explanation is omitted.

[0041] If the data communication in the Internet is completed and the power button of a remote controller 30 is pushed, the Internet unit 1 will be turned off and the external setting flag 9 on RAM23 will be cleared. If the Internet card 24 is extracted from the slot 39 of the Internet unit 1 and the owner of TV with Internet functions 5 of a hotel pushes a power button later, since the external setting flag 9 is cleared, a dial program telephones a self provider's telephone number, and answers with self ID number and password.

[0042] Moreover, the Internet card 24 is inserted in the slot 39 of the Internet unit 1, an online signup program is read from the Internet card 24, in the case of the just delivered Internet unit 1 and the Internet unit 1 which eliminated provider registration, it can communicate with a predetermined provider, and it can register it.

[0043] In gestalt 3. drawing 8 of operation, the thing in which the slot 38 was formed is shown in the television equipment of the set top box version of the gestalt 1 of operation, the television equipment incorporating the Internet circuit of isomorphism and the gestalt 2 of operation, and isomorphism. The Internet card 24 is the same configuration as the gestalten 1 and 2 of operation, and its memorized connection data are also the same. Direct continuation of the connector 29 of the interior where the Internet card 24 joins together in the case of the television equipment of the gestalt 1 of operation and isomorphism is carried out to the bus 47 in television equipment, and it becomes unnecessary [a card slot] at a remote control side. It connects with the bus 47 which is in a set top box through the internal bus wired in television equipment, and the connector 29 of the interior where the Internet card 24 joins together in the case of the television equipment of the gestalt 2 of operation and isomorphism becomes

unnecessary [a card slot] at a remote control side.

[0044] This invention prepares a card slot in a remote control side, stores the program and data which operate by the TV with Internet functions, transmits them to a TV with Internet functions with infrared radiation, performs a program by the TV with Internet functions, uses data, and connects them to the Internet. Therefore, if it has even the Internet card 24, every TV with Internet functions of what will become available. Moreover, a transfer of data or a program is attained between electronic equipment and remote control with infrared ports, such as a personal computer.

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TECHNICAL FIELD

[Field of the Invention] This invention relates to the TV with Internet functions stored in the Internet card which can carry the data which make connection with a provider, and the connection method using the Internet card in detail about a TV with Internet functions.

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PRIOR ART

[Description of the Prior Art] In the conventional TV with Internet functions, with the equipment of self-specification [a user], the provider and the contract are connected to the Internet with the equipment concerned, after carrying out an epilogue and user registration.

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TECHNICAL PROBLEM

[Problem(s) to be Solved by the Invention] In the conventional TV with Internet functions, it was connectable with the Internet with the equipment of self-specification which carried out user registration. Or when another equipment was used, whenever equipment differed, it was troublesome, and when there was no mustard at first, it did not become about the user registration which time amount requires.

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DESCRIPTION OF DRAWINGS

[Brief Description of the Drawings]

[Drawing 1] It is drawing showing the whole gestalt 1 of operation of the TV with Internet functions of this invention.

[Drawing 2] It is the block circuit diagram of the remote controller of the gestalt 1 of operation of the TV with Internet functions of this invention.

[Drawing 3] It is drawing of the example of a block of the important section of the TV with Internet functions of the gestalt 1 of implementation of this invention.

[Drawing 4] It is the external view of the remote controller of the TV with Internet functions of this invention.

[Drawing 5] It is drawing showing the appearance of the whole gestalt 2 of operation of the TV with Internet functions of this invention.

[Drawing 6] It is drawing of the example of a block of the important section of the TV with Internet functions of the gestalt 2 of implementation of this invention.

[Drawing 7] It is drawing showing the example of the initial menu screen of the TV with Internet functions of this invention.

[Drawing 8] It is drawing showing the whole gestalt 3 of operation of the TV with Internet functions of this invention.

[Description of Notations]

- 1 Internet Unit
- 2 Telephone Line
- 3 Video Line
- 4 Audio Line
- 5 Television Equipment
- 8 Modem
- 9 External Setting Flag
- 10 CPU
- 11 Bootstrap ROM
- 12 Dial Program ROM
- 13 Navigator Program ROM
- 14 Video Control Circuit
- 15 External Dial Data
- 16 Audio Controller
- 17 Migration List Creation Program ROM
- 18 Alphabetic Character Font Memory
- 19 Cursor
- 20 D/A Conversion Circuit
- 21, 38, 39 Slot
- 22 D/A Conversion Circuit

23 RAM
24 Internet Card
25 Television Circuit
26 Internet Circuit
27 Carbon Button Assignment Equipment Program ROM
28 Terminal Area
29 Connector
30 Remote Controller
31 Light-emitting Part
32 33 Light sensing portion
34 Video RAM
35 Television Equipment
36 Bootstrap
37 Inside-and-Outside Proper Use Program
40 Carbon Button Group for Television
41 Carbon Button Group for Internet
42 On Scrolling
43 Under Scrolling
44 Migration Carbon Button
45 Activation Carbon Button
46 Termination Carbon Button
47 Bus
49 URL Carbon Button (Address)
50 Dynamic RAM

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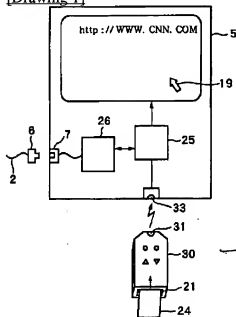
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3. In the drawings, any words are not translated.

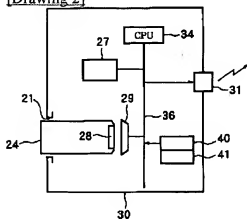
DRAWINGS

[Drawing 1]



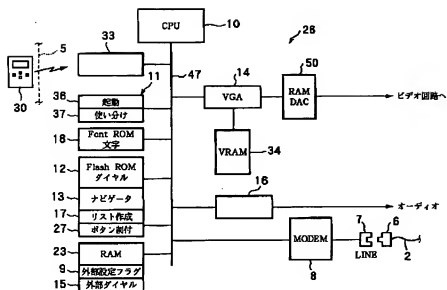
remote control

[Drawing 2]

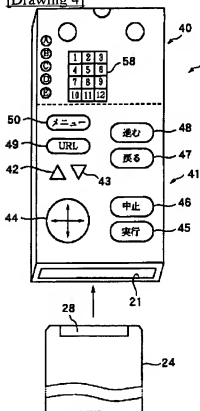


[Drawing 3]

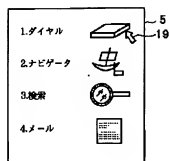
Drawing 3



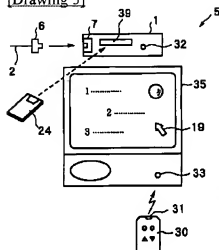
[Drawing 4]



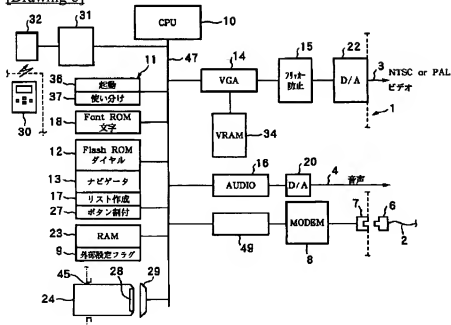
[Drawing 7]



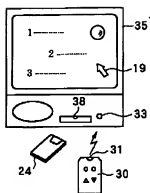
[Drawing 5]



[Drawing 6]



[Drawing 8]



[Translation done.]